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POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

JANUARY-FEBRUARY, 1954

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These results are based upon measurements made at the Naval Observatory on plates secured either there or at the Mt. Wilson Observatory. The symbols used for the entries in the successive columns are as follows:

U.T., the epoch of observation in Universal Time.
No., the identifying number of the group assigned by Mt. Wilson.
Δl, the heliographic difference in longitude from the central meridian, measured positive to the west.
φ, the heliographic latitude, measured positive to the north.
ρ, the heliocentric angular distance from the line joining the centers of the Earth and Sun.
A, the true area of the umbra plus penumbra, expressed in millionths of the visible hemisphere.
s, the number of spots.

An asterisk means that no Mt. Wilson number was assigned. Plates secured at the Naval Observatory are indicated by N, and those at Mt. Wilson by M. The plate quality, which follows, is indicated by:

1, Poor; 2, Fair; 3, Good; 4, Very Good; 5, Excellent.

The following five quantities are listed successively at the end of each day, and give for that day:

1. The total number of groups, g.
2. The longitude of the central meridian, L_0.
3. The latitude of the center of the disc, B_0.
4. The total value of A.
5. The total value of s.

The mean daily area and the mean relative sunspot number, $r=10g+s$ are given at the end of the month.

These results are a continuation of those published in the *Monthly Weather Review* from February 1, 1927 to December 31, 1947.

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U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
1.614 N–3					0	0
	(0)	(352)	(–3)		0	0
2.668 N–3					0	0
	(0)	(339)	(–3)		0	0
3.712 M–2					0	0
	(0)	(325)	(–3)		0	0
4.658 N–3					0	0
	(0)	(313)	(–3)		0	0
5.771 N–3					0	0
	(0)	(298)	(–4)		0	0
6.675 N–3					0	0
	(0)	(286)	(–4)		0	0
7.631 N–3					0	0
	(0)	(274)	(–4)		0	0
8.676 N–3					0	0
	(0)	(260)	(–4)		0	0
9.592 N–3					0	0
	(0)	(248)	(–4)		0	0
10.778 M–2					0	0
	(0)	(232)	(–4)		0	0
11.736 M–2	(*)	–32	– 2	32	6	2
	(1)	(220)	(–4)		6	2

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
12.652 N–2					0	0
	(0)	(207)	(–4)		0	0
13.799 N–1					0	0
	(0)	(192)	(–4)		0	0
14.674 M–2					0	0
	(0)	(181)	(–5)		0	0
15.714 M–2					0	0
	(0)	(167)	(–5)		0	0
16.726 N–2					0	0
	(0)	(154)	(–5)		0	0
17.786 N–2					0	0
	(0)	(140)	(–5)		0	0
18.594 N–2					0	0
	(0)	(129)	(–5)		0	0
19.617 N–4					0	0
	(0)	(116)	(–5)		0	0
20.703 M–2					0	0
	(0)	(101)	(–5)		0	0
21.671 M–3					0	0
	(0)	(89)	(–5)		0	0
22.698 M–3					0	0
	(0)	(75)	(–5)		0	0

JANUARY

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
23.739					0	0
M–2						
	(0)	(61)	(–5)		0	0
25.794					0	0
N–1						
	(0)	(34)	(–6)		0	0
26.584					0	0
N–1						
	(0)	(24)	(–6)		0	0
27.622					0	0
N–4						
	(0)	(10)	(–6)		0	0
28.637					0	0
N–2						
	(0)	(357)	(–6)		0	0
29.665					0	0
N–2						
	(0)	(343)	(–6)		0	0
30.764					0	0
N–3						
	(0)	(329)	(–6)		0	0
31.712					0	0
M–2						
	(0)	(316)	(–6)		0	0

Mean for 30 days, $A = 0$, $r = 0.4$

1.698					0	0
N–3						
	(0)	(304)	(–6)		0	0
2.647					0	0
N–2						
	(0)	(291)	(–6)		0	0
3.704					0	0

FEBRUARY

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
M–2						
	(0)	(277)	(–6)		0	0
4.658					0	0
N–3						
	(0)	(265)	(–6)		0	0
5.662					0	0
N–3						
	(0)	(251)	(–6)		0	0
6.632					0	0
N–3						
	(0)	(239)	(–6)		0	0
7.666					0	0
M–2						
	(0)	(225)	(–6)		0	0
8.615	11170	+23	+33	46	24	1
N–3	11170	+25	+32	46	16	2
	(1)	(212)	(–7)		40	3
9.645	11170	+36	+33	53	12	1
N–3						
	(1)	(199)	(–7)		12	1
10.625					0	0
N–4						
	(0)	(186)	(–7)		0	0
11.894					0	0
N–3						
	(0)	(169)	(–7)		0	0
12.600					0	0
N–1						
	(0)	(160)	(–7)		0	0
14.688					0	0
N–2						
	(0)	(132)	(–7)		0	0
15.634					0	0

FEBRUARY

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
N–3						
	(0)	(120)	(–7)		0	0
16.640					0	0
N–4						
	(0)	(107)	(–7)		0	0
17.649					0	0
N–4						
	(0)	(93)	(–7)		0	0
18.657					0	0
N–4						
	(0)	(80)	(–7)		0	0
19.635					0	0
N–3						
	(0)	(67)	(–7)		0	0
20.644					0	0
M–3						
	(0)	(54)	(–7)		0	0
21.728					0	0
M–3						
	(0)	(40)	(–7)		0	0
22.688					0	0

U.T.	No.	Δl	φ	ρ	A	s
		°	°	°		
N–2						
	(0)	(27)	(–7)		0	0
23.630					0	0
N–3						
	(0)	(15)	(–7)		0	0
24.672					0	0
M–3						
	(0)	(1)	(–7)		0	0
25.589					0	0
N–3						
	(0)	(349)	(–7)		0	0
26.607					0	0
N–4						
	(0)	(336)	(–7)		0	0
27.783					0	0
N–2						
	(0)	(320)	(–7)		0	0
28.864					0	0
N–2						
	(0)	(306)	(–7)		0	0

Mean for 27 days, $A = 2$, $r = 0.9$

4/28/54